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=> file genbank registry

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=> s iawdwngpkw/sqep

'SQEP' IS NOT A VALID FIELD CODE
L1 1 IAWDWNGPKW/SQEP

=> s iawdwngpkw/scm

'SCM' IS NOT A VALID FIELD CODE
'SCM' IS NOT A VALID FIELD CODE
L2 0 IAWDWNGPKW/SCM

=> e iawdwngpkw/sqep

'SQEP' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'GENBANK'

E1 1 IAWARTELL/SQEP
E2 1 IAWARTELLNVCMAKHHKEKPGPEDKLHEQCRPWRKNACCSTNTSQAHKDVSYLRFN
WNHCGEMAPACKRHFQDTCLYECSPNLGPWIIQQVDQSWRKERVNLNPLCKEDCEQWWED
CRTSYTCKSNWHKGWNWTSGFNKAACQPFHFYFPTPTVLCNEIWTSHYSKVSNSYRG
SGRCIQMWFDPAQGNPNEEV/SQEP
E3 1 --> IAWDWNGPKW/SQEP
E4 1 IAWH/SQEP
E5 1 IAWHH/SQEP
E6 1 IAWKHH/SQEP
E7 1 IAWLGAAASGQLGFTSIPATIASLASLATFLMPLIALLLAYDAIVGEDEGGTLMLLLTYP
LGRGQILLGKFVGHGLILALAVLIGFGCAALAIALLVEGVELGMLFWAFGRFMISSTLLG
WVFLAFAYVLSGKVNKSSAAGLALGVWFLFVLVFDLVLLALLVLSEGKFNPELLPWLLL
LNPTDIYRLINLSGFEGSGS/SQEP
E8 1 IAWMAKEFGIPAAVAGTVLNVVEAGGWVTTIVSILTAVGSGGLSLLAAAGRESIKAYLKK
EIKKKGKRAV/SQEP
E9 1 IAWQVEGAGLALGGLAVAALAAPGWGAAIWLAILLAPDLTMAGYLAGPRIGAAFYNLGH
LYAPAFLLTVLGVALGSTALMPRGLWLAHVGFDRMLGYGLKSPSGFRDTHLGRIGREAE
/SQEP
E10 1 IAWV/SQEP
E11 1 IAWVNTPEHVVPYGLG/SQEP
E12 1 IAWYRMGDNCAIPITV/SQEP

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file. To see a list of valid EXPAND field codes, enter HELP
SFIELDS at an arrow prompt (=>).

=> s e3

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L3 1 IAWDWNGPKW/SQEP

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STRUCTURE FILE UPDATES: 27 MAR 2000 HIGHEST RN 260067-48-9
DICTIONARY FILE UPDATES: 27 MAR 2000 HIGHEST RN 260067-48-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 13, 1999

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

=> s IAWDWNGPKW/sqsp

L1 2 IAWDWNGPKW/SQSP

=> d 1-2 all

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2000 ACS
RN 258319-61-8 REGISTRY
CN Taste receptor B3 (human) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4: PN: WO0006592 SEQID: 3 claimed protein
FS PROTEIN SEQUENCE
SQL 777

SEQ 1 RSCSFNEHGY HLFQAMRLGV EEINNSTALL PNITLGYQLY DVCSDSANVY
51 ATLRLVLSLPG QHHIELQGD LHYSTVLAV IGPSTNRRAA TTAALLSPFL
101 VHISYAASSE TLSVKRQYPS FLRTIPNDKY QVETMVLLLQ KFGWTWISLV
151 GSSDDYGQLG VQALENQALV RGICIAFKDI MPFSAQVGDE RMQCLMRHLA
201 QAGATVVVVF SSRQLARVFF ESVVLTNLTG KVVVASEAWA LSRHITGVPG
251 IQRIGMVLGV AIQKRAVPGL KAFEEAYARA DKEAPRPCHK GSWCSSNQLC
301 RECQAFMAHT MPKLKAFSMS SAYNAYRAVY AVAHGLHQLL GCASELCSRG
351 RVYPWQLLEQ IHKVHFLHDK DTVAFNDNRD PLSSYNIIAW DWNGPKWTFT

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401 VLGSSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLEG HQRVVTGFHH
451 CCFECPVPGA GTFLNKSELY RCQPCGTEEW APEGSQTCFP RTVVFLALRE
501 HTSWVLLAAN TLLLLLLLGT AGLFAWHLDT PVVRSAGGRL CFLMLGSLAA
551 GSGSLYGFFG EPTRPACLLR QALFALGFTI FLSCLTVRSF QLIIFKFST
601 KVPTFYHAWV QNHGAGLFVM ISSAAQLLIC LTWLVVWTPL PAREYQRFPH
651 LVMLECTETN SLGFILAFLY NGLLSISAFV CSYLGKDLPE NYNEAKCVTF
701 SLLFNFSWI AFFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFLPKCYV
751 ILCRPDLNST EHFQASIQDY TRRCGST
HITS AT: 388-397

SEQ3 1 Arg-Ser-Cys-Ser-Phe-Asn-Glu-His-Gly-Tyr-
11 His-Leu-Phe-Gln-Ala-Met-Arg-Leu-Gly-Val-
21 Glu-Glu-Ile-Asn-Asn-Ser-Thr-Ala-Leu-Leu-
31 Pro-Asn-Ile-Thr-Leu-Gly-Tyr-Gln-Leu-Tyr-
41 Asp-Val-Cys-Ser-Asp-Ser-Ala-Asn-Val-Tyr-

51 Ala-Thr-Leu-Arg-Val-Leu-Ser-Leu-Pro-Gly-
61 Gln-His-His-Ile-Glu-Leu-Gln-Gly-Asp-Leu-
71 Leu-His-Tyr-Ser-Pro-Thr-Val-Leu-Ala-Val-
81 Ile-Gly-Pro-Asp-Ser-Thr-Asn-Arg-Ala-Ala-
91 Thr-Thr-Ala-Ala-Leu-Leu-Ser-Pro-Phe-Leu-
101 Val-His-Ile-Ser-Tyr-Ala-Ala-Ser-Ser-Glu-
111 Thr-Leu-Ser-Val-Lys-Arg-Gln-Tyr-Pro-Ser-
121 Phe-Leu-Arg-Thr-Ile-Pro-Asn-Asp-Lys-Tyr-
131 Gln-Val-Glu-Thr-Met-Val-Leu-Leu-Leu-Gln-
141 Lys-Phe-Gly-Trp-Thr-Trp-Ile-Ser-Leu-Val-
151 Gly-Ser-Ser-Asp-Asp-Tyr-Gly-Gln-Leu-Gly-
161 Val-Gln-Ala-Leu-Glu-Asn-Gln-Ala-Leu-Val-
171 Arg-Gly-Ile-Cys-Ile-Ala-Phe-Lys-Asp-Ile-
181 Met-Pro-Phe-Ser-Ala-Gln-Val-Gly-Asp-Glu-
191 Arg-Met-Gln-Cys-Leu-Met-Arg-His-Leu-Ala-
201 Gln-Ala-Gly-Ala-Thr-Val-Val-Val-Val-Phe-
211 Ser-Ser-Arg-Gln-Leu-Ala-Arg-Val-Phe-Phe-
221 Glu-Ser-Val-Val-Leu-Thr-Asn-Leu-Thr-Gly-
231 Lys-Val-Trp-Val-Ala-Ser-Glu-Ala-Trp-Ala-
241 Leu-Ser-Arg-His-Ile-Thr-Gly-Val-Pro-Gly-
251 Ile-Gln-Arg-Ile-Gly-Met-Val-Leu-Gly-Val-
261 Ala-Ile-Gln-Lys-Arg-Ala-Val-Pro-Gly-Leu-
271 Lys-Ala-Phe-Glu-Glu-Ala-Tyr-Ala-Arg-Ala-
281 Asp-Lys-Glu-Ala-Pro-Arg-Pro-Cys-His-Lys-
291 Gly-Ser-Trp-Cys-Ser-Ser-Asn-Gln-Leu-Cys-
301 Arg-Glu-Cys-Gln-Ala-Phe-Met-Ala-His-Thr-
311 Met-Pro-Lys-Leu-Lys-Ala-Phe-Ser-Met-Ser-
321 Ser-Ala-Tyr-Asn-Ala-Tyr-Arg-Ala-Val-Tyr-
331 Ala-Val-Ala-His-Gly-Leu-His-Gln-Leu-Leu-
341 Gly-Cys-Ala-Ser-Glu-Leu-Cys-Ser-Arg-Gly-
351 Arg-Val-Tyr-Pro-Trp-Gln-Leu-Leu-Glu-Gln-
361 Ile-His-Lys-Val-His-Phe-Leu-Leu-His-Lys-
371 Asp-Thr-Val-Ala-Phe-Asn-Asp-Asn-Arg-Asp-

381 Pro-Leu-Ser-Ser-Tyr-Asn-Ile-Ile-Ala-Trp-

====

391 Asp-Trp-Asn-Gly-Pro-Lys-Trp-Thr-Phe-Thr-

====

401 Val-Leu-Gly-Ser-Ser-Thr-Trp-Ser-Pro-Val-
411 Gln-Leu-Asn-Ile-Asn-Glu-Thr-Lys-Ile-Gln-
421 Trp-His-Gly-Lys-Asn-His-Gln-Val-Pro-Lys-
431 Ser-Val-Cys-Ser-Ser-Asp-Cys-Leu-Glu-Gly-
441 His-Gln-Arg-Val-Val-Thr-Gly-Phe-His-His-
451 Cys-Cys-Phe-Glu-Cys-Val-Pro-Cys-Gly-Ala-
461 Gly-Thr-Phe-Leu-Asn-Lys-Ser-Glu-Leu-Tyr-
471 Arg-Cys-Gln-Pro-Cys-Gly-Thr-Glu-Glu-Trp-
481 Ala-Pro-Glu-Gly-Ser-Gln-Thr-Cys-Phe-Pro-
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501 His-Thr-Ser-Trp-Val-Leu-Leu-Ala-Ala-Asn-
511 Thr-Leu-Leu-Leu-Leu-Leu-Leu-Leu-Gly-Thr-
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531 Pro-Val-Val-Arg-Ser-Ala-Gly-Gly-Arg-Leu-
541 Cys-Phe-Leu-Met-Leu-Gly-Ser-Leu-Ala-Ala-
551 Gly-Ser-Gly-Ser-Leu-Tyr-Gly-Phe-Phe-Gly-
561 Glu-Pro-Thr-Arg-Pro-Ala-Cys-Leu-Leu-Arg-

571 Gln-Ala-Leu-Phe-Ala-Leu-Gly-Phe-Thr-Ile-
 581 Phe-Leu-Ser-Cys-Leu-Thr-Val-Arg-Ser-Phe-
 591 Gln-Leu-Ile-Ile-Ile-Phe-Lys-Phe-Ser-Thr-
 601 Lys-Val-Pro-Thr-Phe-Tyr-His-Ala-Trp-Val-
 611 Gln-Asn-His-Gly-Ala-Gly-Leu-Phe-Val-Met-
 621 Ile-Ser-Ser-Ala-Ala-Gln-Leu-Leu-Ile-Cys-
 631 Leu-Thr-Trp-Leu-Val-Val-Trp-Thr-Pro-Leu-
 641 Pro-Ala-Arg-Glu-Tyr-Gln-Arg-Phe-Pro-His-
 651 Leu-Val-Met-Leu-Glu-Cys-Thr-Glu-Thr-Asn-
 661 Ser-Leu-Gly-Phe-Ile-Leu-Ala-Phe-Leu-Tyr-
 671 Asn-Gly-Leu-Leu-Ser-Ile-Ser-Ala-Phe-Ala-
 681 Cys-Ser-Tyr-Leu-Gly-Lys-Asp-Leu-Pro-Glu-
 691 Asn-Tyr-Asn-Glu-Ala-Lys-Cys-Val-Thr-Phe-
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 711 Ala-Phe-Phe-Thr-Thr-Ala-Ser-Val-Tyr-Asp-
 721 Gly-Lys-Tyr-Leu-Pro-Ala-Ala-Asn-Met-Met-
 731 Ala-Gly-Leu-Ser-Ser-Leu-Ser-Ser-Gly-Phe-
 741 Gly-Gly-Tyr-Phe-Leu-Pro-Lys-Cys-Tyr-Val-
 751 Ile-Leu-Cys-Arg-Pro-Asp-Leu-Asn-Ser-Thr-
 761 Glu-His-Phe-Gln-Ala-Ser-Ile-Gln-Asp-Tyr-
 771 Thr-Arg-Arg-Cys-Gly-Ser-Thr

HITS AT: 388-397

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 132:162043 CA

TI Nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction

IN Zuker, Charles S.; Adler, Jon Elliott; Lindemeier, Juergen; Ryba, Nick; Hoon, Mark

PA The Regents of the University of California, USA; United States of America, Department of Health and Human Services

SO PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K001-00

ICS C07H021-04; C12P021-06

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 13

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000006592	A1	20000210	WO 1999-US17099	19990727

PI WO 2000006592 A1 20000210 WO 1999-US17099 19990727

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
 DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
 JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
 MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,

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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-94465 19980728

AB The invention provides isolated nucleic acid and amino acid sequences of sensory cell-specific G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sensory cell specific G-protein coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3 isolated from rat, mouse, and human encode polypeptides of .apprx.840 amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and fungiform cells, with lower expression in circumvallate taste receptor cells of the tongue. GPCR-B3 is a moderately rare sequence found in .apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA library.

ST taste receptor B3 cDNA sequence mouse rat human

IT Taste receptors

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(B3; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs

(cytoplasmic domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs

(extracellular domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT cDNA sequences

(for mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Molecular cloning

Mouse

Rat

Taste

(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Antibodies

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Primers (nucleic acid)

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein sequences

(of mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Tongue

(taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
 (transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P
 RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (amino acid sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 256479-74-0 256479-75-1
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (degenerate amplification primers designed from; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 258319-62-9P 258319-63-0P 258319-64-1P
 RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (nucleotide sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

LI ANSWER 2 OF 2 REGISTRY COPYRIGHT 2000 ACS
 RN 256479-74-0 REGISTRY
 CN L-Tryptophan, L-isoleucyl-L-alanyl-L-tryptophyl-L-.alpha.-aspartyl-L-tryptophyl-L-asparaginyglycyl-L-prolyl-L-lysyl- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 1: PN: WO0006592 SEQID: 7 claimed sequence
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 10

SEQ 1 IAWDWNPKW
 =====

HITS AT: 1-10

SEQ3 1 Ile-Ala-Trp-Asp-Trp-Asn-Gly-Pro-Lys-Trp
 =====

HITS AT: 1-10

MF C63 H81 N15 O14
 SR CA
 LC STN Files: CA, CAPLUS, TOXLIT

Ring System Data

Elemental	Elemental	Size of	Ring System	Ring	RID
Analysis	Sequence	the Rings	Formula	Identifier	Occurrence
EA	ES	SZ	RF	RID	Count
=====	+	=====	+	=====	+
C4N	NC4	5	C4N	16.136.1	1
C4N-C6	NC4-C6	5-6	C8N	333.151.57	3

Absolute stereochemistry.

/ Structure 1 in file .gra /

/ Structure 2 in file .gra /

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PA The Regents of the University of California, USA; United States of America, Department of Health and Human Services

SO PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K001-00

ICS C07H021-04; C12P021-06

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 13

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2000006592	AI	20000210	WO 1999-US17099 19990727
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W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-94465 19980728

AB The invention provides isolated nucleic acid and amino acid sequences of sensory cell-specific G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sensory cell specific G-protein coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3 isolated from rat, mouse, and human encode polypeptides of .apprx.840 amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and fungiform cells, with lower expression in circumvallate taste receptor cells of the tongue. GPCR-B3 is a moderately rare sequence found in .apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA library.

ST taste receptor B3 cDNA sequence mouse rat human

IT Taste receptors

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IT Protein motifs
 (cytoplasmic domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

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 (extracellular domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT cDNA sequences
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IT Molecular cloning
 Mouse
 Rat
 Taste
 (nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Antibodies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Primers (nucleic acid)
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein sequences
 (of mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Tongue
 (taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
 (transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P
 RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (amino acid sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 256479-74-0 256479-75-1
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (degenerate amplification primers designed from; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 258319-62-9P 258319-63-0P 258319-64-1P
 RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (nucleotide sequence; nucleic acids encoding a mammalian G-protein

coupled receptors involved in taste sensory transduction)

=> d kwic 1

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2000 ACS

SEQ 351 RVYPWQLLEQ IHKVHFLHLK DTVAFNDNRD PLSSYNIIAW DWNGPKWTFT

==== =====

HITS AT: 388-397

=> d kwic 2

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2000 ACS

SEQ 1 IAWDWNGPKW

=====

HITS AT: 1-10

=> d ll 1-2 sqn

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2000 ACS

RN 258319-61-8 REGISTRY

CN Taste receptor B3 (human) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4: PN: WO0006592 SEQID: 3 claimed protein

FS PROTEIN SEQUENCE

SQL 777

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2000 ACS

RN 256479-74-0 REGISTRY

CN L-Tryptophan, L-isoleucyl-L-alanyl-L-tryptophyl-L-.alpha.-aspartyl-L-tryptophyl-L-asparaginylglycyl-L-prolyl-L-lysyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1: PN: WO0006592 SEQID: 7 claimed sequence

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 10

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s lpenyneakc/sqsp

L2 7 LPENYNEAKC/SQSP

=> dup rem l2

DUPLICATE IS NOT AVAILABLE IN 'REGISTRY'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L2
L3 7 DUP REM L2 (0 DUPLICATES REMOVED)

=> d l2 l all

L2 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 258319-67-4 REGISTRY
CN Taste receptor B3 (rat isoform #3) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 10: PN: WO0006592 SEQID: 1 claimed sequence
FS PROTEIN SEQUENCE
SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSLPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNHG GYHLFQAMRF TVEEINNSSG LLPNITLGYE
101 LYDVCESAN VYATLRVLAL QGPRHIEIQK DLNRHSSKV V AFIGPDNTDH
151 AVTTAALLGP FLMPVLSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSGFWVWI SLIGSYGDYG QLGVALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFFRSVVLN LTGKVVVASE
301 DWAISTYITS VTGIQIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGSWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYIDI
451 IAWDWNGPEW TFEIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC
501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VGTA GLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGEPTVPAC LLRQPLFSLG FAIFLSCLTI
651 RSFQLVIIFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMM
701 TPRPTREYQR FPHLVILECT EVNSVGFLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLNFV SWIAFFT MAS IYQGSYLPV NVLAGLTTLS

=====
801 GGFSGYFLPK CYVILCRPEL NTEHFQASI QDYTRRCGTT
HITS AT: 751-760

SEQ3 1 Met-Leu-Phe-Trp-Ala-Ala-His-Leu-Leu-Leu-
11 Ser-Leu-Gln-Leu-Val-Tyr-Cys-Trp-Ala-Phe-
21 Ser-Cys-Gln-Arg-Thr-Glu-Ser-Ser-Pro-Gly-
31 Phe-Ser-Leu-Pro-Gly-Asp-Phe-Leu-Leu-Ala-
41 Gly-Leu-Phe-Ser-Leu-His-Gly-Asp-Cys-Leu-
51 Gln-Val-Arg-His-Arg-Pro-Leu-Val-Thr-Ser-
61 Cys-Asp-Arg-Pro-Asp-Ser-Phe-Asn-Gly-His-
71 Gly-Tyr-His-Leu-Phe-Gln-Ala-Met-Arg-Phe-
81 Thr-Val-Glu-Glu-Ile-Asn-Asn-Ser-Ser-Gly-
91 Leu-Leu-Pro-Asn-Ile-Thr-Leu-Gly-Tyr-Glu-
101 Leu-Tyr-Asp-Val-Cys-Ser-Glu-Ser-Ala-Asn-
111 Val-Tyr-Ala-Thr-Leu-Arg-Val-Leu-Ala-Leu-
121 Gln-Gly-Pro-Arg-His-Ile-Glu-Ile-Gln-Lys-
131 Asp-Leu-Arg-Asn-His-Ser-Ser-Lys-Val-Val-
141 Ala-Phe-Ile-Gly-Pro-Asp-Asn-Thr-Asp-His-
151 Ala-Val-Thr-Thr-Ala-Ala-Leu-Leu-Gly-Pro-
161 Phe-Leu-Met-Pro-Leu-Val-Ser-Tyr-Glu-Ala-
171 Ser-Ser-Val-Val-Leu-Ser-Ala-Lys-Arg-Lys-
181 Phe-Pro-Ser-Phe-Leu-Arg-Thr-Val-Pro-Ser-
191 Asp-Arg-His-Gln-Val-Glu-Val-Met-Val-Gln-

201 Leu-Leu-Gln-Ser-Phe-Gly-Trp-Val-Trp-Ile-
211 Ser-Leu-Ile-Gly-Ser-Tyr-Gly-Asp-Tyr-Gly-
221 Gln-Leu-Gly-Val-Gln-Ala-Leu-Glu-Glu-Leu-
231 Ala-Val-Pro-Arg-Gly-Ile-Cys-Val-Ala-Phe-
241 Lys-Asp-Ile-Val-Pro-Phe-Ser-Ala-Arg-Val-
251 Gly-Asp-Pro-Arg-Met-Gln-Ser-Met-Met-Gln-
261 His-Leu-Ala-Gln-Ala-Arg-Thr-Thr-Val-Val-
271 Val-Val-Phe-Ser-Asn-Arg-His-Leu-Ala-Arg-
281 Val-Phe-Phe-Arg-Ser-Val-Val-Leu-Ala-Asn-
291 Leu-Thr-Gly-Lys-Val-Trp-Val-Ala-Ser-Glu-
301 Asp-Trp-Ala-Ile-Ser-Thr-Tyr-Ile-Thr-Ser-
311 Val-Thr-Gly-Ile-Gln-Gly-Ile-Gly-Thr-Val-
321 Leu-Gly-Val-Ala-Val-Gln-Gln-Arg-Gln-Val-
331 Pro-Gly-Leu-Lys-Glu-Phe-Glu-Glu-Ser-Tyr-
341 Val-Arg-Ala-Val-Thr-Ala-Ala-Pro-Ser-Ala-
351 Cys-Pro-Glu-Gly-Ser-Trp-Cys-Ser-Thr-Asn-
361 Gln-Leu-Cys-Arg-Glu-Cys-His-Thr-Phe-Thr-
371 Thr-Arg-Asn-Met-Pro-Thr-Leu-Gly-Ala-Phe-
381 Ser-Met-Ser-Ala-Ala-Tyr-Arg-Val-Tyr-Glu-
391 Ala-Val-Tyr-Ala-Val-Ala-His-Gly-Leu-His-
401 Gln-Leu-Leu-Gly-Cys-Thr-Ser-Glu-Ile-Cys-
411 Ser-Arg-Gly-Pro-Val-Tyr-Pro-Trp-Gln-Leu-
421 Leu-Gln-Gln-Ile-Tyr-Lys-Val-Asn-Phe-Leu-
431 Leu-His-Glu-Asn-Thr-Val-Ala-Phe-Asp-Asp-
441 Asn-Gly-Asp-Thr-Leu-Gly-Tyr-Tyr-Asp-Ile-
451 Ile-Ala-Trp-Asp-Trp-Asn-Gly-Pro-Glu-Trp-
461 Thr-Phe-Glu-Ile-Ile-Gly-Ser-Ala-Ser-Leu-
471 Ser-Pro-Val-His-Leu-Asp-Ile-Asn-Lys-Thr-
481 Lys-Ile-Gln-Trp-His-Gly-Lys-Asn-Asn-Gln-
491 Val-Pro-Val-Ser-Val-Cys-Thr-Thr-Asp-Cys-
501 Leu-Ala-Gly-His-His-Arg-Val-Val-Val-Gly-

511 Ser-His-His-Cys-Cys-Phe-Glu-Cys-Val-Pro-
521 Cys-Glu-Ala-Gly-Thr-Phe-Leu-Asn-Met-Ser-
531 Glu-Leu-His-Ile-Cys-Gln-Pro-Cys-Gly-Thr-
541 Glu-Glu-Trp-Ala-Pro-Lys-Glu-Ser-Thr-Thr-
551 Cys-Phe-Pro-Arg-Thr-Val-Glu-Phe-Leu-Ala-
561 Trp-His-Glu-Pro-Ile-Ser-Leu-Val-Leu-Ile-
571 Ala-Ala-Asn-Thr-Leu-Leu-Leu-Leu-Leu-Leu-
581 Val-Gly-Thr-Ala-Gly-Leu-Phe-Ala-Trp-His-
591 Phe-His-Thr-Pro-Val-Val-Arg-Ser-Ala-Gly-
601 Gly-Arg-Leu-Cys-Phe-Leu-Met-Leu-Gly-Ser-
611 Leu-Val-Ala-Gly-Ser-Cys-Ser-Phe-Tyr-Ser-
621 Phe-Phe-Gly-Glu-Pro-Thr-Val-Pro-Ala-Cys-
631 Leu-Leu-Arg-Gln-Pro-Leu-Phe-Ser-Leu-Gly-
641 Phe-Ala-Ile-Phe-Leu-Ser-Cys-Leu-Thr-Ile-
651 Arg-Ser-Phe-Gln-Leu-Val-Ile-Ile-Phe-Lys-
661 Phe-Ser-Thr-Lys-Val-Pro-Thr-Phe-Tyr-Arg-
671 Thr-Trp-Ala-Gln-Asn-His-Gly-Ala-Gly-Leu-
681 Phe-Val-Ile-Val-Ser-Ser-Thr-Val-His-Leu-
691 Leu-Ile-Cys-Leu-Thr-Trp-Leu-Val-Met-Trp-
701 Thr-Pro-Arg-Pro-Thr-Arg-Glu-Tyr-Gln-Arg-
711 Phe-Pro-His-Leu-Val-Ile-Leu-Glu-Cys-Thr-
721 Glu-Val-Asn-Ser-Val-Gly-Phe-Leu-Leu-Ala-
731 Phe-Thr-His-Asn-Ile-Leu-Leu-Ser-Ile-Ser-

741 Thr-Phe-Val-Cys-Ser-Tyr-Leu-Gly-Lys-Glu-

751 Leu-Pro-Glu-Asn-Tyr-Asn-Glu-Ala-Lys-Cys-

====

761 Val-Thr-Phe-Ser-Leu-Leu-Leu-Asn-Phe-Val-

771 Ser-Trp-Ile-Ala-Phe-Phe-Thr-Met-Ala-Ser-

781 Ile-Tyr-Gln-Gly-Ser-Tyr-Leu-Pro-Ala-Val-

791 Asn-Val-Leu-Ala-Gly-Leu-Thr-Thr-Leu-Ser-

801 Gly-Gly-Phe-Ser-Gly-Tyr-Phe-Leu-Pro-Lys-

811 Cys-Tyr-Val-Ile-Leu-Cys-Arg-Pro-Glu-Leu-

821 Asn-Asn-Thr-Glu-His-Phe-Gln-Ala-Ser-Ile-

831 Gln-Asp-Tyr-Thr-Arg-Arg-Cys-Gly-Thr-Thr

HITS AT: 751-760

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 132:162043 CA

TI Nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction

IN Zuker, Charles S.; Adler, Jon Elliott; Lindemeier, Juergen; Ryba, Nick; Hoon, Mark

PA The Regents of the University of California, USA; United States of America, Department of Health and Human Services

SO PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K001-00

ICS C07H021-04; C12P021-06

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 13

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2000006592	A1	20000210	WO 1999-US17099	19990727
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W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-94465 19980728

AB The invention provides isolated nucleic acid and amino acid sequences of sensory cell-specific G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and

methods of screening for modulators of sensory cell specific G-protein coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3 isolated from rat, mouse, and human encode polypeptides of .apprx.840 amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and fungiform cells, with lower expression in circumvallate taste receptor cells of the tongue. GPCR-B3 is a moderately rare sequence found in .apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA library.

ST taste receptor B3 cDNA sequence mouse rat human

IT Taste receptors

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(B3; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs

(cytoplasmic domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs

(extracellular domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT cDNA sequences

(for mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Molecular cloning

Mouse

Rat

Taste

(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Antibodies

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Primers (nucleic acid)

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein sequences

(of mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Tongue

(taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs

(transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(amino acid sequence; nucleic acids encoding a mammalian G-protein

coupled receptors involved in taste sensory transduction)
IT 256479-74-0 256479-75-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(degenerate amplification primers designed from; nucleic acids encoding
a mammalian G-protein coupled receptors involved in taste sensory
transduction)
IT 258319-62-9P 258319-63-0P 258319-64-1P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU
(Biological use, unclassified); PRP (Properties); BIOL (Biological study);
OCCU (Occurrence); PREP (Preparation); USES (Uses)
(nucleotide sequence; nucleic acids encoding a mammalian G-protein
coupled receptors involved in taste sensory transduction)

=> d l2 l sqide

L2 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 258319-67-4 REGISTRY
CN Taste receptor B3 (rat isoform #3) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 10: PN: WO0006592 SEQID: 1 claimed sequence
FS PROTEIN SEQUENCE
SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSLPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNHG GYHLFQAMRF TVEEINNSSG LLPNITLGYE
101 LYDVCESAN VYATLRVLAL QGPRHIEIQK DLNRHSSKV VAFIGPDNTDH
151 AVTTAALLGP FLMPLVSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSFGVWVI SLIGSYGDYQ QLGVALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFFRSVVLAN LTGKVWVASE
301 DWAISTYITS VTGIQIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGSWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYDDI
451 IAWDWNWPEW TFEIIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC
501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VGTAGLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGEPTVPAC LLRQPLFSLG FAIFLSCLTI
651 RSFQLVIFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMW
701 TPRPTREYQR FPHLVILECT EVNSVGFLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPV NVLAGLTTLT

=====
801 GGFSGYFLPK CYVILCRPEL NNTHEFQASI QDYTRRCGTT

HITS AT: 751-760

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d l2 l-7 sqide

L2 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 258319-67-4 REGISTRY
CN Taste receptor B3 (rat isoform #3) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 10: PN: WO0006592 SEQID: 1 claimed sequence
FS PROTEIN SEQUENCE
SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSLPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNH GYHLFQAMRF TVEEINNSSG LLPNITLGYE
101 LYDVCESAN VYATLRVLAL QGPRHIEIQK DLRNHSSKVV AFIGPDNTDH
151 AVTTAALLGP FLMPVSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSFGWVWI SLIGSYGDYG QLGVQALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFFRSVVLN LTGKVWVASE
301 DWAISTYITS VTGIQGIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYDDI
451 IAWDWNWPEW TFEIIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC
501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VGTAGLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGTEPTVPAC LLRQPLFSLG FAIFLSCLTI
651 RSFQLVHFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMW
701 TPRPTREYQR FPHLVILECT EVNSVGFLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPV NVLAGLTTLS

=====
801 GGFSGYFLPK CYVILCRPEL NNTEHFQASI QDYTRRCGTT

HITS AT: 751-760

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 258319-66-3 REGISTRY
CN Taste receptor B3 (rat isoform #2) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 9: PN: WO0006592 SEQID: 1 claimed sequence
FS PROTEIN SEQUENCE
SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSLPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNH GYHLFQAMRF TVEDINNSSA LLPNITLGYE
101 LYDVCESAN VYATLRVLAL QGPRHIEIQK DLRNHSSKVV AFIGPDNTDH
151 AVTTAALLGP FLMPVSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSFGWVWI SLIGSYGDYG QLGVQALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFFRSVVLN LTGKVWVASE
301 DWAISTYITS VTGIQGIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYDDI
451 IAWDWNWPEW TFEIIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC
501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VGTAGLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGTEPTVPAC LLRQPLFSLG FAIFLSCLTI

651 RSFQLVIIFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMW
701 TPRPTREYQR FPHLVILECT EVNSVGFLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLNFV SWIAFFTMAIS IYQGSYLPV NVLAGLTTLS

=====

801 GGFSGYFLPK CYVILCRPEL NNTTEHFQASI QDYTRRCGTT

HITS AT: 751-760

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2000 ACS

RN 258319-65-2 REGISTRY

CN Taste receptor B3 (rat isoform #1) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 8: PN: WO0006592 SEQID: 1 claimed sequence

FS PROTEIN SEQUENCE

SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSIPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNH GYHLFQAMRF TVEEINNSSA LLPNITLGYE
101 LYDVCESAN VYATLRVLAL QGPRHIEIQK DLRNHSSKVV AFIGPDNTDH
151 AVTTAALLGP FLMPVSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSFGVWVI SLIGSYGDYG QLGVQALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFRSVVLN LTGKVWVASE
301 DWAISTYITS VTGIQGIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYYDI
451 IAWDWNWPEW TFEIIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC
501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VGTAFLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGEPTVPAC LLRQPLFSLG FAIFLSCLTI
651 RSFQLVIIFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMW
701 TPRPTREYQR FPHLVILECT EVNSVGFLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLNFV SWIAFFTMAIS IYQGSYLPV NVLAGLTTLS

=====

801 GGFSGYFLPK CYVILCRPEL NNTTEHFQASI QDYTRRCGTT

HITS AT: 751-760

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2000 ACS

RN 258319-61-8 REGISTRY

CN Taste receptor B3 (human) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4: PN: WO0006592 SEQID: 3 claimed protein

FS PROTEIN SEQUENCE

SQL 777

SEQ 1 RSCSFNEHGY HLFQAMRLGV EEINNSTALL PNITLGYQLY DVCSDSANVY
51 ATLRVLSLPG QHHIELQGD LHYSTVLAV IGPSTNRAA TTAALLSPFL
101 VHISYAASSE TLSVKRQYPS FLRTIPNDKY QVETMVLLQ KFGWTWISLV
151 GSSDDYGQLG VQALNQALV RGICIAFKDI MPFSAQVGDE RMQCLMRHLA
201 QAGATVVVVF SSRQLARVFF ESVVLTNLTG KVVVASEAWA LSRHITGVPG
251 IQRIGMVLGV AIQKRAVPGL KAFEEAYARA DKEAPRPCBK GSWCSSNQLC
301 RECQAFMAHT MPKLKAFSMS SAYNAYRAVY AVAHGLHQLL GCASELCSRG
351 RVYPWQLEQ IHKVHFLHDK DTVAFNDNRD PLSSYNIIAW DWNGPKWTFT
401 VLGSSTWSPV QLNINETKI QWHGKNHQV PK SVCSSDCLEG HQRVVTGFHH
451 CCFCVPCGA GTFLNKSELY RCQPCGTEEW APEGSQTCFP RTVVFLALRE
501 HTSWVLLAAN TLLLLLLLGT AGLFAWHLDT PVVRSAGGRL CFLMLGSLAA
551 GSGSLYGFFG EPTRPACLLR QALFALGFTI FLSCLTVRSF QLIIIFKFT
601 KVPTFYHAWV QNHGAGLFVM ISSAQLLIC LTWLVVWTPL PAREYQRFPH
651 LVMLECTETN SLGFI LAFLY NGLLSISAF A CSYLKDLPE NYNEAKCVTF

====

701 SLLFNFSWI AFFTTASVYD GKYLPAAANMM AGLSSLSSGF GGYFLPKCYV
751 ILCRPDLNST EHFQASIQDY TRRCGST

HITS AT: 688-697

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2000 ACS

RN 258319-60-7 REGISTRY

CN Taste receptor B3 (mouse) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3: PN: WO0006592 SEQID: 2 claimed protein

FS PROTEIN SEQUENCE

SQL 842

SEQ 1 MLFWAAHLLL SLQLAVAYCW AFSCQRTSS PGFSLPGDFL LAGLFSLHAD
51 CLQVRHRPLV TSCDRSDSFN GHGYHLFQAM RFTVEEINNS TALLPNITLG
101 YELYDVCSSES SNVYATLRVP AQQGTGHLEM QRDLRNHSSK VVALIGPDNT
151 DHAVTTAALL SPFLMPLVSY EASSVILSGK RKFPSFLRTI PSDKYQVEVI
201 VRLLOSFGWV WISLVGSYGD YGQLGVQALE ELATPRGICV AFKDVVPLSA
251 QAGDPRMQRM MLRLARARTT VVVVFSNRHL AGVFFRSVVL ANLTGKVVIA
301 SEDWAISTYI TNVPGIQQIG TVLGVAIQQR QVPGLKEFEE SYVQAVMGAP
351 RTCPEGSWCG TNQLCRECHA FTTWNMPELG AFMSAAAYNV YEAVYAVAHG
401 LHQLLGCTSG TCARGPVYPW QLLQIYKVN FLLHKKTVAF DDKGDPLGYY
451 DIIAWDWN GP EWTFEVIGSA SLSPVHLDIN KTKIQWHGKN NQVPVSVCTR
501 DCLEGGHRLV MGSHHCCFEC MPCEAGTFLN TSELHTCQPC GTEEWAPESG
551 SACFSRTVEF LGWHEPISLV LLAANTLLLL LLIGTAGLFA WRLHTPVVRS
601 AGGRLCFLML GSLVAGSCSL YSFFGKPTVP ACLLRQPLFS LGFAIFLSCL
651 TIRSFQLVII FKFSKVP TF YHTWAQNHGA GIFVIVSSTV HLFLCLTWLA
701 MWTPTPTREY QRFPHLVILE CTEVNSVGFL VAFAHNILLS ISTFVCSYLG
751 KELPENYNEA KCVTFSLLLH FVSWIAFFTM SSIYQGSYLP AVNVLAGLAT

=====

801 LSGGFSGYFL PKCYVILCRP ELNNTTEHFQA SIQDYTRRCG TT

HITS AT: 753-762

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 256479-75-1 REGISTRY
CN L-Cysteine, L-leucyl-L-prolyl-L-.alpha.-glutamyl-L-asparaginyL-L-tyrosyl-L-
asparaginyL-L-.alpha.-glutamyl-L-alanyl-L-lysyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2: PN: WO0006592 SEQID: 8 claimed sequence
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 10

SEQ 1 LPENYNEAKC

=====

HITS AT: 1-10
MF C50 H77 N13 O18 S
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.

/ Structure 3 in file .gra /

/ Structure 4 in file .gra /

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 224043-49-6 REGISTRY
CN Taste receptor TR1 (Rattus norvegicus circumvallate papilla N-terminal
fragment) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1: PN: WO0006592 SEQID: 1 claimed protein
CN GenBank AF127389-derived protein GI 4337086
CN Putative taste receptor TR1 (Rattus norvegicus circumvallate papilla
N-terminal fragment)
CN Taste receptor B3 (rat)
FS PROTEIN SEQUENCE
SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSLPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNH GYHLFQAMRF TVEEINNSSA LLPNITLGYE
101 LYDVCESAN VYATLRVLAL QGPRHIEIQK DLRNHSSKV AFIGPDNTDH
151 AVTTAALLGP FLMPVSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSFQVWVI SLIGSYGDYQ QLGVALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFFRSVVLN LTGKVWVASE
301 DWAISTYITS VTGIQIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGSWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYYDI
451 IAWDWNPEW TFEIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC

501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VG TAGLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGPTVPAC LLRQPLFSLG FAIFLSCLTI
651 RSFQLVHFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMW
701 TPRPTREYQR FPHLVILECT EVNSVGFLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLNFV SWIAFFTMS IYQGSYLPV NVLAGLTTLS

=====

801 GGFSGYFLPK CYVILCRPEL NNTEHFQASI QDYTRRCGTT

HITS AT: 751-760

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d l2 1-7 kwic

L2 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 751 LPENYNEAKC VTFSLLNFV SWIAFFTMS IYQGSYLPV NVLAGLTTLS

=====

HITS AT: 751-760

L2 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 751 LPENYNEAKC VTFSLLNFV SWIAFFTMS IYQGSYLPV NVLAGLTTLS

=====

HITS AT: 751-760

L2 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 751 LPENYNEAKC VTFSLLNFV SWIAFFTMS IYQGSYLPV NVLAGLTTLS

=====

HITS AT: 751-760

L2 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 651 LVMLECTETN SLGFILAFLY NGLLSISAFV CSYLGKDLPE NYNEAKCVTF

==== =====

HITS AT: 688-697

L2 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 751 KLPENYNEA KCVTFSLLH FVSWIAFTMS SSIYQGSYLP AVNVLAGLAT

===== ==

HITS AT: 753-762

L2 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 1 LPENYNEAKC

=====

HITS AT: 1-10

L2 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 751 LPENYNEAKC VTFSLLLNFV SWIAFFTMA5 IYQGSYLPV NVLAGLTTL5

HITS AT: 751-760

=> log y

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	ENTRY	SINCE FILE SESSION	TOTAL
CA SUBSCRIBER PRICE		-1.59	-1.59

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DICTIONARY FILE UPDATES: 27 MAR 2000 HIGHEST RN 260067-48-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 13, 1999

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT for details.

=> s iawdwngpkw/sqsp

L1 2 IAWDWNGPKW/SQSP

=> d l1 1-2 all

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2000 ACS

RN 258319-61-8 REGISTRY

CN Taste receptor B3 (human) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4: PN: WO0006592 SEQID: 3 claimed protein

FS PROTEIN SEQUENCE

SQL 777

SEQ 1 RSCSFNEHGY HLFQAMRLGV EEINNSTALL PNITLGYQLY DVCSDSANVY
51 ATLRVLSLPG QHHIELQGD LHYPTVLAV IGPDSTNR AA TTAALLSPFL
101 VHISYAASSE TLSVKRQYPS FLRTIPNDKY QVETMVLLLQ KFGWTWISLV
151 GSSDDYGQLG VQALENQALV RGICIAFKDI MPFSAQVGDE RMQCLMRHLA
201 QAGATVVVVF SSRQLARVFF ESVVLTNLTG KVVVASEAWA LSRHITGVPG

251 IQRIGMVLGV AIQKRAVPGL KAFEEAYARA DKEAPRPCCHK GSWCSSNQLC
301 RECQAFMAHT MPKLKAFSMS SAYNAYRAVY AVAHGLHQLL GCASELCSRG
351 RVYPWQLLEQ IHKVHFLHLK DTVAFNDNRD PLSSYNIIAW DWNGPKWTFT

==== =====

401 VLGSSTWSPV QLNINETKIQ WHGKNHQVVK SVCSSDCLEG HQRVVTGFHH
451 CCFECVPCGA GTFLNKSELY RCQPCGTEEW APEGSQTCFP RTVVFLALRE
501 HTSWVLLAAN TLLLLLLLGT AGLFAWHLDT PVVRSAGGRL CFLMLGSLAA
551 GSGSLYGFFG EPTRPACLLR QALFALGFTI FLSCLTVRSF QLIIIFKFST
601 KVPTFYHAWV QNHGAGLFVM ISSAAQLLIC LTWLVVWTPL PAREYQRFPH
651 LVMLECTETN SLGFILAFLY NGLLSISAFSA CSYLGKDLPE NYNEAKCVTF
701 SLLFNFSVSWI AFFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFLPKCYV
751 ILCRPDLNST EHFQASIQDY TRRCGST

HITS AT: 388-397

SEQ3 1 Arg-Ser-Cys-Ser-Phe-Asn-Glu-His-Gly-Tyr-

11 His-Leu-Phe-Gln-Ala-Met-Arg-Leu-Gly-Val-
21 Glu-Glu-Ile-Asn-Asn-Ser-Thr-Ala-Leu-Leu-
31 Pro-Asn-Ile-Thr-Leu-Gly-Tyr-Gln-Leu-Tyr-
41 Asp-Val-Cys-Ser-Asp-Ser-Ala-Asn-Val-Tyr-
51 Ala-Thr-Leu-Arg-Val-Leu-Ser-Leu-Pro-Gly-
61 Gln-His-His-Ile-Glu-Leu-Gln-Gly-Asp-Leu-
71 Leu-His-Tyr-Ser-Pro-Thr-Val-Leu-Ala-Val-
81 Ile-Gly-Pro-Asp-Ser-Thr-Asn-Arg-Ala-Ala-
91 Thr-Thr-Ala-Ala-Leu-Leu-Ser-Pro-Phe-Leu-
101 Val-His-Ile-Ser-Tyr-Ala-Ala-Ser-Ser-Glu-
111 Thr-Leu-Ser-Val-Lys-Arg-Gln-Tyr-Pro-Ser-
121 Phe-Leu-Arg-Thr-Ile-Pro-Asn-Asp-Lys-Tyr-
131 Gln-Val-Glu-Thr-Met-Val-Leu-Leu-Leu-Gln-
141 Lys-Phe-Gly-Trp-Thr-Trp-Ile-Ser-Leu-Val-
151 Gly-Ser-Ser-Asp-Asp-Tyr-Gly-Gln-Leu-Gly-
161 Val-Gln-Ala-Leu-Glu-Asn-Gln-Ala-Leu-Val-
171 Arg-Gly-Ile-Cys-Ile-Ala-Phe-Lys-Asp-Ile-
181 Met-Pro-Phe-Ser-Ala-Gln-Val-Gly-Asp-Glu-
191 Arg-Met-Gln-Cys-Leu-Met-Arg-His-Leu-Ala-
201 Gln-Ala-Gly-Ala-Thr-Val-Val-Val-Val-Phe-
211 Ser-Ser-Arg-Gln-Leu-Ala-Arg-Val-Phe-Phe-
221 Glu-Ser-Val-Val-Leu-Thr-Asn-Leu-Thr-Gly-
231 Lys-Val-Trp-Val-Ala-Ser-Glu-Ala-Trp-Ala-
241 Leu-Ser-Arg-His-Ile-Thr-Gly-Val-Pro-Gly-
251 Ile-Gln-Arg-Ile-Gly-Met-Val-Leu-Gly-Val-
261 Ala-Ile-Gln-Lys-Arg-Ala-Val-Pro-Gly-Leu-
271 Lys-Ala-Phe-Glu-Glu-Ala-Tyr-Ala-Arg-Ala-
281 Asp-Lys-Glu-Ala-Pro-Arg-Pro-Cys-His-Lys-
291 Gly-Ser-Trp-Cys-Ser-Ser-Asn-Gln-Leu-Cys-
301 Arg-Glu-Cys-Gln-Ala-Phe-Met-Ala-His-Thr-
311 Met-Pro-Lys-Leu-Lys-Ala-Phe-Ser-Met-Ser-
321 Ser-Ala-Tyr-Asn-Ala-Tyr-Arg-Ala-Val-Tyr-
331 Ala-Val-Ala-His-Gly-Leu-His-Gln-Leu-Leu-
341 Gly-Cys-Ala-Ser-Glu-Leu-Cys-Ser-Arg-Gly-
351 Arg-Val-Tyr-Pro-Trp-Gln-Leu-Leu-Glu-Gln-
361 Ile-His-Lys-Val-His-Phe-Leu-Leu-His-Lys-
371 Asp-Thr-Val-Ala-Phe-Asn-Asp-Asn-Arg-Asp-

381 Pro-Leu-Ser-Ser-Tyr-Asn-Ile-Ile-Ala-Trp-

==== =====

391 Asp-Trp-Asn-Gly-Pro-Lys-Trp-Thr-Phe-Thr-

====

401 Val-Leu-Gly-Ser-Ser-Thr-Trp-Ser-Pro-Val-
411 Gln-Leu-Asn-Ile-Asn-Glu-Thr-Lys-Ile-Gln-
421 Trp-His-Gly-Lys-Asn-His-Gln-Val-Pro-Lys-
431 Ser-Val-Cys-Ser-Ser-Asp-Cys-Leu-Glu-Gly-
441 His-Gln-Arg-Val-Val-Thr-Gly-Phe-His-His-
451 Cys-Cys-Phe-Glu-Cys-Val-Pro-Cys-Gly-Ala-
461 Gly-Thr-Phe-Leu-Asn-Lys-Ser-Glu-Leu-Tyr-
471 Arg-Cys-Gln-Pro-Cys-Gly-Thr-Glu-Glu-Trp-
481 Ala-Pro-Glu-Gly-Ser-Gln-Thr-Cys-Phe-Pro-
491 Arg-Thr-Val-Val-Phe-Leu-Ala-Leu-Arg-Glu-
501 His-Thr-Ser-Trp-Val-Leu-Leu-Ala-Ala-Asn-
511 Thr-Leu-Leu-Leu-Leu-Leu-Leu-Gly-Thr-
521 Ala-Gly-Leu-Phe-Ala-Trp-His-Leu-Asp-Thr-
531 Pro-Val-Val-Arg-Ser-Ala-Gly-Gly-Arg-Leu-
541 Cys-Phe-Leu-Met-Leu-Gly-Ser-Leu-Ala-Ala-
551 Gly-Ser-Gly-Ser-Leu-Tyr-Gly-Phe-Phe-Gly-
561 Glu-Pro-Thr-Arg-Pro-Ala-Cys-Leu-Leu-Arg-
571 Gln-Ala-Leu-Phe-Ala-Leu-Gly-Phe-Thr-Ile-
581 Phe-Leu-Ser-Cys-Leu-Thr-Val-Arg-Ser-Phe-
591 Gln-Leu-Ile-Ile-Ile-Phe-Lys-Phe-Ser-Thr-
601 Lys-Val-Pro-Thr-Phe-Tyr-His-Ala-Trp-Val-
611 Gln-Asn-His-Gly-Ala-Gly-Leu-Phe-Val-Met-
621 Ile-Ser-Ser-Ala-Ala-Gln-Leu-Leu-Ile-Cys-
631 Leu-Thr-Trp-Leu-Val-Val-Trp-Thr-Pro-Leu-
641 Pro-Ala-Arg-Glu-Tyr-Gln-Arg-Phe-Pro-His-
651 Leu-Val-Met-Leu-Glu-Cys-Thr-Glu-Thr-Asn-
661 Ser-Leu-Gly-Phe-Ile-Leu-Ala-Phe-Leu-Tyr-
671 Asn-Gly-Leu-Leu-Ser-Ile-Ser-Ala-Phe-Ala-
681 Cys-Ser-Tyr-Leu-Gly-Lys-Asp-Leu-Pro-Glu-
691 Asn-Tyr-Asn-Glu-Ala-Lys-Cys-Val-Thr-Phe-
701 Ser-Leu-Leu-Phe-Asn-Phe-Val-Ser-Trp-Ile-
711 Ala-Phe-Phe-Thr-Thr-Ala-Ser-Val-Tyr-Asp-
721 Gly-Lys-Tyr-Leu-Pro-Ala-Ala-Asn-Met-Met-
731 Ala-Gly-Leu-Ser-Ser-Leu-Ser-Ser-Gly-Phe-
741 Gly-Gly-Tyr-Phe-Leu-Pro-Lys-Cys-Tyr-Val-
751 Ile-Leu-Cys-Arg-Pro-Asp-Leu-Asn-Ser-Thr-
761 Glu-His-Phe-Gln-Ala-Ser-Ile-Gln-Asp-Tyr-
771 Thr-Arg-Arg-Cys-Gly-Ser-Thr

HITS AT: 388-397

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 132:162043 CA

TI Nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction

IN Zuker, Charles S.; Adler, Jon Elliott; Lindemeier, Juergen; Ryba, Nick;

Hoon, Mark
PA The Regents of the University of California, USA; United States of
America, Department of Health and Human Services
SO PCT Int. Appl., 83 pp.
CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K001-00

ICS C07H021-04; C12P021-06

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 13

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2000006592	A1	20000210	WO 1999-US17099 19990727
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W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
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CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-94465 19980728

AB The invention provides isolated nucleic acid and amino acid sequences of
sensory cell-specific G-protein coupled receptors, antibodies to such
receptors, methods of detecting such nucleic acids and receptors, and
methods of screening for modulators of sensory cell specific G-protein
coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3
isolated from rat, mouse, and human encode polypeptides of .apprx.840
amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted
range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and
fungiform cells, with lower expression in circumvallate taste receptor
cells of the tongue. GPCR-B3 is a moderately rare sequence found in
.apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA
library.

ST taste receptor B3 cDNA sequence mouse rat human

IT Taste receptors

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU
(Biological use, unclassified); PRP (Properties); BIOL (Biological study);
OCCU (Occurrence); PREP (Preparation); USES (Uses)

(B3; nucleic acids encoding a mammalian G-protein coupled receptors
involved in taste sensory transduction)

IT Protein motifs

(cytoplasmic domain; nucleic acids encoding a mammalian G-protein
coupled receptors involved in taste sensory transduction)

IT Protein motifs

(extracellular domain; nucleic acids encoding a mammalian G-protein
coupled receptors involved in taste sensory transduction)

IT cDNA sequences

(for mammalian G-protein coupled receptors involved in taste sensory
transduction)

IT Molecular cloning

Mouse

Rat
Taste
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Antibodies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Primers (nucleic acid)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein sequences
(of mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Tongue
(taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
(transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(amino acid sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 256479-74-0 256479-75-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(degenerate amplification primers designed from; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 258319-62-9P 258319-63-0P 258319-64-1P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(nucleotide sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

LI ANSWER 2 OF 2 REGISTRY COPYRIGHT 2000 ACS

RN 256479-74-0 REGISTRY

CN L-Tryptophan, L-isoleucyl-L-alanyl-L-tryptophyl-L-.alpha.-aspartyl-L-tryptophyl-L-asparaginylglycyl-L-prolyl-L-lysyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1: PN: WO0006592 SEQID: 7 claimed sequence

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 10

SEQ 1 IAWDWNNGPKW

=====

HITS AT: 1-10

SEQ3 1 Ile-Ala-Trp-Asp-Trp-Asn-Gly-Pro-Lys-Trp

=====
HITS AT: 1-10

MF C63 H81 N15 O14

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

Ring System Data

Elemental|Elemental| Size of|Ring System| Ring | RID
Analysis|Sequence|the Rings| Formula |Identifier|Occurrence
EA | ES | SZ | RF | RID | Count

=====
C4N |NC4 |5 |C4N |16.136.1 |1
C4N-C6 |NC4-C6 |5-6 |C8N |333.151.57|3

Absolute stereochemistry.

/ Structure 5 in file .gra /

/ Structure 6 in file .gra /

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 132:162043 CA

TI Nucleic acids encoding a mammalian G-protein coupled receptors involved in
taste sensory transduction

IN Zuker, Charles S.; Adler, Jon Elliott; Lindemeier, Juergen; Ryba, Nick;
Hoon, Mark

PA The Regents of the University of California, USA; United States of
America, Department of Health and Human Services

SO PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K001-00

ICS C07H021-04; C12P021-06

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 13

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2000006592 A1 20000210 WO 1999-US17099 19990727

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,

MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-94465 19980728

AB The invention provides isolated nucleic acid and amino acid sequences of sensory cell-specific G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sensory cell specific G-protein coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3 isolated from rat, mouse, and human encode polypeptides of .apprx.840 amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and fungiform cells, with lower expression in circumvallate taste receptor cells of the tongue. GPCR-B3 is a moderately rare sequence found in .apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA library.

ST taste receptor B3 cDNA sequence mouse rat human

IT Taste receptors

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(B3; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs

(cytoplasmic domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs

(extracellular domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT cDNA sequences

(for mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Molecular cloning

Mouse

Rat

Taste

(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Antibodies

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Primers (nucleic acid)

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein sequences

(of mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Tongue

(taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs

(transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(amino acid sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 256479-74-0 256479-75-1

RL: BSU (Biological study, unclassified); BIOL (Biological study) (degenerate amplification primers designed from; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 258319-62-9P 258319-63-0P 258319-64-1P

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(nucleotide sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

=> s lpenyneakc/sqsp

L2 7 LPENYNEAKC/SQSP

=> d l2 1-7 cn lc rn kwic

L2 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS
 CN Taste receptor B3 (rat isoform #3) (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 10: PN: WO0006592 SEQID: 1 claimed sequence
 LC STN Files: CA, CAPLUS, TOXLIT
 RN 258319-67-4 REGISTRY

SEQ 751 LPENYNEAKC VTFSLLLNFV SWIAFFTMS IYQGSYLPV NVLAGLTTLS
 =====
 HITS AT: 751-760

L2 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2000 ACS
 CN Taste receptor B3 (rat isoform #2) (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 9: PN: WO0006592 SEQID: 1 claimed sequence
 LC STN Files: CA, CAPLUS, TOXLIT
 RN 258319-66-3 REGISTRY

SEQ 751 LPENYNEAKC VTFSLLLNFV SWIAFFTMS IYQGSYLPV NVLAGLTTLS
 =====
 HITS AT: 751-760

L2 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2000 ACS
 CN Taste receptor B3 (rat isoform #1) (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 8: PN: WO0006592 SEQID: 1 claimed sequence

LC STN Files: CA, CAPLUS, TOXLIT
RN 258319-65-2 REGISTRY

SEQ 751 LPENYNEAKC VTFSLLLNFB SWIAFFTMAI IYQGSYLPV NVLAGLTTLS

HITS AT: 751-760

L2 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2000 ACS

CN Taste receptor B3 (human) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4: PN: WO0006592 SEQID: 3 claimed protein

LC STN Files: CA, CAPLUS, TOXLIT

RN 258319-61-8 REGISTRY

SEQ 651 LVMLECTETN SLGFILAFLY NGLLSISAFV CSYLGKDLPE NYNEAKCVTF

HITS AT: 688-697

L2 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2000 ACS

CN Taste receptor B3 (mouse) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3: PN: WO0006592 SEQID: 2 claimed protein

LC STN Files: CA, CAPLUS, TOXLIT

RN 258319-60-7 REGISTRY

SEQ 751 KLPENYNEA KCVTFSLLLH FVSWIAFTM SSIYQGSYLP AVNVLAGLAT

HITS AT: 753-762

L2 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2000 ACS

CN L-Cysteine, L-leucyl-L-prolyl-L-.alpha.-glutamyl-L-asparaginyL-L-tyrosyl-L-
asparaginyL-L-.alpha.-glutamyl-L-alanyl-L-lysyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2: PN: WO0006592 SEQID: 8 claimed sequence

LC STN Files: CA, CAPLUS, TOXLIT

RN 256479-75-1 REGISTRY

SEQ 1 LPENYNEAKC

HITS AT: 1-10

L2 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2000 ACS

CN Taste receptor TR1 (Rattus norvegicus circumvallate papilla N-terminal
fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1: PN: WO0006592 SEQID: 1 claimed protein

CN GenBank AF127389-derived protein GI 4337086

CN Putative taste receptor TR1 (Rattus norvegicus circumvallate papilla
N-terminal fragment)

CN Taste receptor B3 (rat)

LC STN Files: CA, CAPLUS, TOXLIT

RN 224043-49-6 REGISTRY

SEQ 751 LPENYNEAKC VTFSLLLNFB SWIAFFTMAI IYQGSYLPV NVLAGLTTLS

HITS AT: 751-760

=> d 12 6 all

L2 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2000 ACS

RN 256479-75-1 REGISTRY

CN L-Cysteine, L-leucyl-L-prolyl-L-.alpha.-glutamyl-L-asparaginy-L-tyrosyl-L-asparaginy-L-.alpha.-glutamyl-L-alanyl-L-lysyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2: PN: WO0006592 SEQID: 8 claimed sequence

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 10

SEQ 1 LPENYNEAKC

=====

HITS AT: 1-10

SEQ3 1 Leu-Pro-Glu-Asn-Tyr-Asn-Glu-Ala-Lys-Cys

====

HITS AT: 1-10

MF C50 H77 N13 O18 S

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

Ring System Data

Elemental	Elemental	Size of	Ring System	Ring	RID
Analysis	Sequence	the Rings	Formula	Identifier	Occurrence
EA	ES	SZ	RF	RID	Count

=====+=====+=====+=====+=====+=====

C4N	NC4	5	C4N	16.136.1	1
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C6	C6	6	C6	46.150.18	1
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Absolute stereochemistry.

/ Structure 7 in file .gra /

/ Structure 8 in file .gra /

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 132:162043 CA

TI Nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction

IN Zuker, Charles S.; Adler, Jon Elliott; Lindemeier, Juergen; Ryba, Nick;

Hoon, Mark
PA The Regents of the University of California, USA; United States of
America, Department of Health and Human Services
SO PCT Int. Appl., 83 pp.
CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K001-00

ICS C07H021-04; C12P021-06

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 13

FAN.CNT I

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2000006592	A1	20000210	WO 1999-US17099 19990727
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W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-94465 19980728

AB The invention provides isolated nucleic acid and amino acid sequences of
sensory cell-specific G-protein coupled receptors, antibodies to such
receptors, methods of detecting such nucleic acids and receptors, and
methods of screening for modulators of sensory cell specific G-protein
coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3
isolated from rat, mouse, and human encode polypeptides of .apprx.840
amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted
range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and
fungiform cells, with lower expression in circumvallate taste receptor
cells of the tongue. GPCR-B3 is a moderately rare sequence found in
.apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA
library.

ST taste receptor B3 cDNA sequence mouse rat human

IT Taste receptors

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU
(Biological use, unclassified); PRP (Properties); BIOL (Biological study);
OCCU (Occurrence); PREP (Preparation); USES (Uses)
(B3; nucleic acids encoding a mammalian G-protein coupled receptors
involved in taste sensory transduction)

IT Protein motifs

(cytoplasmic domain; nucleic acids encoding a mammalian G-protein
coupled receptors involved in taste sensory transduction)

IT Protein motifs

(extracellular domain; nucleic acids encoding a mammalian G-protein
coupled receptors involved in taste sensory transduction)

IT cDNA sequences

(for mammalian G-protein coupled receptors involved in taste sensory
transduction)

IT Molecular cloning

Mouse

Rat
Taste
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Antibodies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Primers (nucleic acid)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein sequences
(of mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Tongue
(taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
(transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(amino acid sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 256479-74-0 256479-75-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(degenerate amplification primers designed from; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 258319-62-9P 258319-63-0P 258319-64-1P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(nucleotide sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

=> log y

COST IN U.S. DOLLARS		SINCE FILE	TOTAL
	ENTRY	SESSION	
FULL ESTIMATED COST		108.93	109.23
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		SINCE FILE	TOTAL
	ENTRY	SESSION	
CA SUBSCRIBER PRICE		-1.59	-1.59

STN INTERNATIONAL LOGOFF AT 12:37:39 ON 28 MAR 2000

Trying 3106016892...Open

Welcome to STN International! Enter x:x

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1 Feb 2 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Dec 17 Expanded CAPlus Coverage of US, Japanese, WIPO,
EPO, and German patents
NEWS 3 Feb 1 Addition of Machine-Translated Abstracts to CAPlus
NEWS 4 Feb 2 STEREO BOND SEARCH PROBLEM FIXED WITH STN EXPRESS 5.0C
NEWS 5 Feb 14 Homology Searching for Nucleotide Sequences in DGENE
now available!
NEWS 6 Feb 16 BIOTECHNOBASE NOW ON STN
NEWS 7 Feb 22 New Database Producer Clusters Now Available on STN
NEWS 8 Feb 28 Structure Search Limits Increased in REGISTRY,
ZREGISTRY, and CASREACT
NEWS 9 Feb 28 Patent Information Now Searchable in CAOLD
NEWS 10 Mar 1 New IMSDIRETORY Provides Pharma Company Details
NEWS 11 Mar 20 INPADOC: PRODUCER WARNING ABOUT DATA DELAYS
NEWS 12 Mar 22 NEW FEATURES IN INPADOC - RANGE SEARCHING AND NEW
SDI/UPDATE SEARCH FIELD

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 13:52:45 ON 28 MAR 2000

=> file medline biosis

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
FULL ESTIMATED COST		0.15	0.15

FILE 'MEDLINE' ENTERED AT 13:53:25 ON 28 MAR 2000

FILE 'BIOSIS' ENTERED AT 13:53:25 ON 28 MAR 2000
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=> s (taste receptor)

L1 660 (TASTE RECEPTOR)

=> s gustatory receptor

L2 78 GUSTATORY RECEPTOR

=> s l1 or l2

L3 727 L1 OR L2

=> s l3 and clone

L4 10 L3 AND CLONE

=> s l3 and (clone or cloning or cdna)

L5 20 L3 AND (CLONE OR CLONING OR CDNA)

=> dup rem l5

PROCESSING COMPLETED FOR L5

L6 14 DUP REM L5 (6 DUPLICATES REMOVED)

=> d ibib abs 1-14

L6 ANSWER 1 OF 14 MEDLINE

ACCESSION NUMBER: 1999337936 MEDLINE

DOCUMENT NUMBER: 99337936

TITLE: Directing gene expression to gustducin-positive
taste ***receptor*** cells.

AUTHOR: Wong G T; Ruiz-Avila L; Margolskee R F

CORPORATE SOURCE: Howard Hughes Medical Institute, Department of Physiology
and Biophysics, The Mount Sinai School of Medicine, New
York, New York 10029, USA.

CONTRACT NUMBER: R01DC03055 (NIDCD)
R01DC03155 (NIDCD)
F32DC00142 (NIDCD)

SOURCE: JOURNAL OF NEUROSCIENCE, (1999 Jul 15) 19 (14) 5802-9.
Journal code: JDF. ISSN: 0270-6474.

PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199910

AB We have demonstrated that an 8.4 kb segment (GUS(8.4)) from the upstream
region of the mouse alpha-gustducin gene acts as a fully functional
promoter to target lacZ transgene expression to the gustducin-positive
subset of ***taste*** ***receptor*** cells (TRCs). The GUS(8.4)
promoter drove TRC expression of the beta-galactosidase marker at high

levels and in a developmentally appropriate pattern. The gustducin minimal 1.4 kb promoter (GUS(1.4)) by itself was insufficient to specify TRC expression. We also identified an upstream enhancer from the distal portion of the murine gustducin gene that, in combination with the minimal promoter, specified TRC expression of transgenes. Expression of the lacZ transgene from the GUS(8.4) promoter and of endogenous gustducin was coordinately lost after nerve section and simultaneously recovered after reinnervation, confirming the functionality of this promoter. Transgenic expression of rat alpha-gustducin restored responsiveness of gustducin null mice to both bitter and sweet compounds, demonstrating the utility of the gustducin promoter.

L6 ANSWER 2 OF 14 MEDLINE

ACCESSION NUMBER: 2000040713 MEDLINE

DOCUMENT NUMBER: 20040713

TITLE: Ggamma13 colocalizes with gustducin in ***taste***
receptor cells and mediates IP3 responses to bitter
denatonium.

AUTHOR: Huang L; Shanker Y G; Dubauskaite J; Zheng J Z; Yan W;
Rosenzweig S; Spielman A I; Max M; Margolskee R F

CORPORATE SOURCE: Howard Hughes Medical Institute, Mount Sinai School of
Medicine of New York University, Box 1677, One Gustave L.
Levy Place, New York, New York 10029, USA.

CONTRACT NUMBER: DC03155 (NIDCD)
MH57241 (NIMH)
DE10754 (NIDCR)

+

SOURCE: Nat Neurosci, (1999 Dec) 2 (12) 1055-62.
Journal code: DA8. ISSN: 1097-6256.

PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200003

ENTRY WEEK: 20000304

AB Gustducin is a transducin-like G protein selectively expressed in
taste ***receptor*** cells. The alpha subunit of gustducin
(alpha-gustducin) is critical for transduction of responses to bitter or
sweet compounds. We identified a G-protein gamma subunit (Ggamma13) that
colocalized with alpha-gustducin in ***taste*** ***receptor***
cells. Of 19 alpha-gustducin/Ggamma13-positive ***taste***
receptor cells profiled, all expressed the G protein beta3 subunit
(Gbeta3); approximately 80% also expressed Gbeta1. Gustducin heterotrimers
(alpha-gustducin/Gbeta1/Ggamma13) were activated by taste cell membranes
plus bitter denatonium. Antibodies against Ggamma13 blocked the
denatonium-induced increase of inositol trisphosphate (IP3) in taste
tissue. We conclude that gustducin heterotrimers transduce responses to
bitter and sweet compounds via alpha-gustducin's regulation of
phosphodiesterase (PDE) and Gbetagamma's activation of phospholipase C
(PLC).

L6 ANSWER 3 OF 14 MEDLINE

DUPLICATE 1

ACCESSION NUMBER: 1999159821 MEDLINE

DOCUMENT NUMBER: 99159821

TITLE: Putative mammalian taste receptors: a class of

taste-specific GPCRs with distinct topographic selectivity.
AUTHOR: Hoon M A; Adler E; Lindemeier J; Battey J F; Ryba N J;
Zuker C S
CORPORATE SOURCE: National Institute of Dental and Craniofacial Research,
National Institutes of Health, Bethesda, Maryland 20892,
USA.
SOURCE: CELL, (1999 Feb 19) 96 (4) 541-51.
Journal code: CQ4. ISSN: 0092-8674.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals; Cancer Journals
ENTRY MONTH: 199905

AB Taste represents a major form of sensory input in the animal kingdom. In mammals, taste perception begins with the recognition of tastant molecules by unknown membrane receptors localized on the apical surface of receptor cells of the tongue and palate epithelium. We report the ***cloning*** and characterization of two novel seven-transmembrane domain proteins expressed in topographically distinct subpopulations of ***taste*** ***receptor*** cells and taste buds. These proteins are specifically localized to the taste pore and are members of a new group of G protein-coupled receptors distantly related to putative mammalian pheromone receptors. We propose that these genes encode taste receptors.

L6 ANSWER 4 OF 14 BIOSIS COPYRIGHT 2000 BIOSIS

ACCESSION NUMBER: 1999:73531 BIOSIS

DOCUMENT NUMBER: PREV199900073531

TITLE: Identification of a phospholipase C beta subtype in rat taste cells.

AUTHOR(S): Roessler, Patricia; Kroner, Christine; Freitag, Joachim;
Noe, Johannes; Breer, Heinz (1)

CORPORATE SOURCE: (1) Inst. Physiol., Univ. Hohenheim, D-70593 Stuttgart Germany

SOURCE: European Journal of Cell Biology, (Nov., 1998) Vol. 77, No. 3, pp. 253-261.
ISSN: 0171-9335.

DOCUMENT TYPE: Article

LANGUAGE: English

AB From rat circumvallate papillae a novel phospholipase C (PLC) subtype has been cloned and identified as most closely related to human PLC beta2. The corresponding mRNA was only detected in sensory lingual tissue but not in non-taste lingual tissue or any other tissues examined by Northern blot analysis. In situ hybridization revealed that a subset of ***taste*** ***receptor*** cells of circumvallate papillae was specifically labeled. A functional involvement of this PLC beta subtype in taste signal transduction emerged from biochemical analysis monitoring the second messenger response in circumvallate preparations induced by denatonium benzoate. This bitter agent elicited a rapid and transient increase of the inositol 1,4,5-trisphosphate level; this response was blocked by U73122, a potent inhibitor of PLC, and by PLC beta2-specific antibodies. These data indicate that a phospholipase C beta2 isoform mediates a denatonium benzoate-induced second messenger response of taste sensory cells in the circumvallate papillae.

L6 ANSWER 5 OF 14 MEDLINE

DUPLICATE 2

ACCESSION NUMBER: 97271227 MEDLINE
DOCUMENT NUMBER: 97271227
TITLE: Analysis and comparison of partial sequences of clones from
a taste-bud-enriched ***cDNA*** library.
AUTHOR: Hoon M A; Ryba N J
CORPORATE SOURCE: Laboratory of Immunology, National Institute of Dental
Research, National Institutes of Health, Bethesda, Maryland
20892, USA.
SOURCE: JOURNAL OF DENTAL RESEARCH, (1997 Apr) 76 (4) 831-8.
Journal code: HYV. ISSN: 0022-0345.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals; Dental Journals
OTHER SOURCE: GENBANK-Z14957; GENBANK-M83196; GENBANK-U10484;
GENBANK-U02098; GENBANK-X66494; GENBANK-X81003;
GENBANK-M97636; GENBANK-X14194; GENBANK-M32489;
GENBANK-P11883; GENBANK-L07910; GENBANK-L08407;
GENBANK-X04240; GENBANK-L46593; GENBANK-D28602;
GENBANK-U37558; GENBANK-L24116; GENBANK-M81088;
GENBANK-X16481; GENBANK-M10937; GENBANK-X52733;
GENBANK-X02580; GENBANK-U29175; GENBANK-U12026;
GENBANK-M86389; GENBANK-Z36277; GENBANK-S63233;
GENBANK-U31880; GENBANK-X74760; GENBANK-L07769; +
ENTRY MONTH: 199707
ENTRY WEEK: 19970701

AB Differential patterns of cellular development and function are determined,
at least in part, by the specific gene expression of particular cells.
Thus, determination of differential patterns of gene expression between
tissues is likely to help elucidate molecular details of tissue-specific
processes. Our hypothesis was that cells of the circumvallate papilla
involved in taste perception would express genes that are not expressed in
the surrounding epithelium and that determination of the nature of these
genes could be helpful in our understanding of the molecular details of
taste. Using partial sequencing of clones derived from rat circumvallate
papillae, we have begun to characterize genes that could be important in
taste. We prepared a ***cDNA*** library of whole circumvallate
papillae and, by means of a novel subtraction procedure, enriched
taste-specific clones. Characterization of the libraries showed that
subtraction resulted in good enrichment of taste-specific clones. Here we
report the partial sequencing and analysis of 410 ***cDNA*** clones
from the taste-bud-enriched ***cDNA*** library. Approximately 25% of
the genes were identified on the basis of their high homology to known
transcripts. These included the developmentally important molecules Pax-1,
esp1, Notch 1, and Notch 3 that may play roles in the continuous turnover
of ***taste*** ***receptor*** cells. A further 20% of the genes
had no significant homology to known DNA sequences and were identified as
taste-specific by Southern blot analysis.

L6 ANSWER 6 OF 14 MEDLINE
ACCESSION NUMBER: 96270593 MEDLINE
DOCUMENT NUMBER: 96270593
TITLE: ***Taste*** ***receptor*** -like cells in the rat
gut identified by expression of alpha-gustducin.
AUTHOR: Hofer D; Puschel B; Drenckhahn D

CORPORATE SOURCE: Institute of Anatomy, University of Wurzburg, Germany.
SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE
UNITED STATES OF AMERICA, (1996 Jun 25) 93 (13) 6631-4.
Journal code: PV3. ISSN: 0027-8424.

PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English
FILE SEGMENT: Priority Journals; Cancer Journals
ENTRY MONTH: 199610

AB The alpha-subunit of the trimeric G-protein complex specific for
taste ***receptor*** cells of the tongue, alpha-gustducin, is
described here to be also expressed in the stomach and intestine. The
alpha-gustducin-containing cells were identified as brush cells that are
scattered throughout the surface epithelium of the gut and share
structural features of ***taste*** ***receptor*** cells of the
tongue. These findings provide clues to the long-sought molecular and
cellular basis for chemoreception in the gut.

L6 ANSWER 7 OF 14 MEDLINE

ACCESSION NUMBER: 96267008 MEDLINE

DOCUMENT NUMBER: 96267008

TITLE: Transduction of bitter and sweet taste by gustducin [see
comments] [published erratum appears in Nature 1996 Oct
10;383(6600):557].

COMMENT: Comment in: Nature 1996 Jun 27;381(6585):737-8

AUTHOR: Wong G T; Gannon K S; Margolskee R F

CORPORATE SOURCE: Department of Physiology and Biophysics, Mount Sinai School
of Medicine, New York 10029, USA.

SOURCE: NATURE, (1996 Jun 27) 381 (6585) 796-800.
Journal code: NSC. ISSN: 0028-0836.

PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English
FILE SEGMENT: Cancer Journals; Priority Journals
ENTRY MONTH: 199610

AB Several lines of evidence suggest that both sweet and bitter tastes are
transduced via receptors coupled to heterotrimeric guanine-nucleotide-
binding proteins (G proteins). Gustducin is a ***taste***
receptor cell (TRC)-specific G protein that is closely related to
the transducins. Gustducin and rod transducin, which is also expressed in
TRCs, have been proposed to couple bitter-responsive receptors to
TRC-specific phosphodiesterases to regulate intracellular cyclic
nucleotides. Here we investigate gustducin's role in taste transduction by
generating and characterizing mice deficient in the gustducin
alpha-subunit (alpha-gustducin). As predicted, the mutant mice showed
reduced behavioural and electrophysiological responses to bitter
compounds, whereas they were indistinguishable from wild-type controls in
their responses to salty and sour stimuli. Unexpectedly, mutant mice also
exhibited reduced behavioural and electrophysiological responses to sweet
compounds. Our results suggest that gustducin is a principal mediator of
both bitter and sweet signal transduction.

L6 ANSWER 8 OF 14 MEDLINE

DUPLICATE 3

ACCESSION NUMBER: 95253834 MEDLINE

DOCUMENT NUMBER: 95253834

TITLE: Mosaic analysis of the embryonic origin of taste buds.
AUTHOR: Stone L M; Finger T E
CORPORATE SOURCE: Department of Cellular and Structural Biology, Rocky
Mountain Taste and Smell Center, University of Colorado
School of Medicine, Denver 80262, USA..
CONTRACT NUMBER: P01DC00244 (NIDCD)
SOURCE: CHEMICAL SENSES, (1994 Dec) 19 (6) 725-35. Ref: 44
Journal code: B4B. ISSN: 0379-864X.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199508

AB The embryonic origins of ***taste*** ***receptor*** cells have not been established experimentally. Although related receptor cells (e.g. hair cells of the inner ear, lateral line receptors) are known to arise from neurogenic ectoderm (e.g. neural crest or placodes), taste buds are described as arising from local epithelial cells. Also unknown is whether or not each taste bud is a ***clone*** of cells, i.e. arising from a single progenitor. To address these problems, mosaic and chimeric analyses of lingual epithelium and taste buds have been undertaken. This paper describes the theory of chimeric and mosaic cell lineage analyses, the advantages and disadvantages, and the preliminary results obtained from the examination of the taste buds and lingual epithelium of: 1) mosaic *Xenopus*, 2) chimeric mice and 3) X-inactivation mosaic mice.

L6 ANSWER 9 OF 14 MEDLINE DUPLICATE 4

ACCESSION NUMBER: 93280176 MEDLINE

DOCUMENT NUMBER: 93280176

TITLE: Primary structure and cell-type specific expression of a gustatory G protein-coupled receptor related to olfactory receptors.

AUTHOR: Abe K; Kusakabe Y; Tanemura K; Emori Y; Arai S

CORPORATE SOURCE: Department of Agricultural Chemistry, Faculty of Agriculture, University of Tokyo, Japan.

SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (1993 Jun 5) 268 (16) 12033-9.

Journal code: HIV. ISSN: 0021-9258.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals; Cancer Journals

OTHER SOURCE: GENBANK-D12820

ENTRY MONTH: 199309

AB We have reported on the partial structures of a multigene family encoding GTP-binding protein (G protein)-coupled, seven-transmembrane receptors expressed in the tongue (Abe, K., Kusakabe, Y., Tanemura, K., Emori, Y., and Arai, S. (1993) FEBS Lett. 316, 253-256). Here we describe a full-length ***cDNA*** ***clone*** encoding a tongue cell-type specific receptor. The encoded protein consists of 312 amino acid residues. In overall structure, the protein is similar to known G protein-coupled, seven-transmembrane receptors such as an olfactory receptor (56% identity) but is significantly different in part,

particularly in NH₂-terminal extracellular and COOH-terminal cytoplasmic domain structures. Northern analysis showed that the mRNA for this protein is expressed only in the epithelium of the tongue, not in other organs. In situ hybridization experiments clearly indicated that the mRNA is expressed exclusively on the tongue apical surface, not on the reverse side of the tongue nor in its muscle layer. Expression was also detected in the taste buds and surrounding cellular tissues of the fungiform and circumvallate papillae. It is suggested that this ***gustatory*** ***receptor*** structurally related to olfactory receptors may be a candidate for a ***taste*** ***receptor***.

L6 ANSWER 10 OF 14 BIOSIS COPYRIGHT 2000 BIOSIS

ACCESSION NUMBER: 1993:372362 BIOSIS

DOCUMENT NUMBER: PREV199396058037

TITLE: Sequence and structural implications of a bovine corneal keratan sulfate proteoglycan core protein: Protein 37B represents bovine lumican and proteins 37A and 25 are unique.

AUTHOR(S): Funderburgh, James L. (1); Funderburgh, Martha L.; Brown, Susan J.; Vergnes, J.-P.; Hassell, John R.; Mann, Mary M.; Conrad, Gary W.

CORPORATE SOURCE: (1) Div. Biol., Ackert Hall, Kansas State Univ., Manhattan, KS 66506 USA

SOURCE: Journal of Biological Chemistry, (1993) Vol. 268, No. 16, pp. 11874-11880.
ISSN: 0021-9258.

DOCUMENT TYPE: Article

LANGUAGE: English

AB Amino acid sequence from tryptic peptides of three different bovine corneal keratan sulfate proteoglycan (KSPG) core proteins (designated 37A, 37B, and 25) showed similarities to the sequence of a chicken KSPG core protein lumican. Bovine lumican ***cDNA*** was isolated from a bovine corneal expression library by screening with chicken lumican ***cDNA***. The bovine ***cDNA*** codes for a 342-amino acid protein, M-r 38,712, containing amino acid sequences identified in the 37B KSPG core protein. The bovine lumican is 68% identical to chicken lumican, with an 83% identity excluding the N-terminal 40 amino acids. Location of 6 cysteine and 4 consensus N-glycosylation sites in the bovine sequence were identical to those in chicken lumican. Bovine lumican had about 50% identity to bovine fibromodulin and 20% identity to bovine decorin and biglycan. About two-thirds of the lumican protein consists of a series of 10 amino acid leucine-rich repeats that occur in regions of calculated high beta-hydrophobic moment, suggesting that the leucine-rich repeats contribute to beta-sheet formation in these proteins. Sequences obtained from 37A and 25 core proteins were absent in bovine lumican, thus predicting a unique primary structure and separate mRNA for each of the three bovine KSPG core proteins.

L6 ANSWER 11 OF 14 MEDLINE

ACCESSION NUMBER: 94099777 MEDLINE

DOCUMENT NUMBER: 94099777

TITLE: The molecular biology of taste transduction.

AUTHOR: Margolske R F

CORPORATE SOURCE: Roche Research Center, Roche Institute of Molecular Biology, Nutley, NJ 07110.

SOURCE: BIOESSAYS, (1993 Oct) 15 (10) 645-50. Ref: 61
Journal code: 9YY. ISSN: 0265-9247.

PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)

LANGUAGE: English

ENTRY MONTH: 199404

AB Taste cells respond to a wide variety of chemical stimuli: certain ions are perceived as salty (Na⁺) or sour (H⁺); other small molecules are perceived as sweet (sugars) and bitter (alkaloids). Taste has evolutionary value allowing animals to respond positively (to sweet carbohydrates and salty NaCl) or aversively (to bitter poisons and corrosive acids). Recently, some of the proteins involved in taste transduction have been cloned. Several different G proteins have been identified and cloned from taste tissue: gustducin is a taste cell specific G protein closely related to the transducins. Work is under way to ***clone*** additional components of the taste transduction pathways. The combination of electrophysiology, biochemistry and molecular biology is being used to characterize ***taste*** ***receptor*** cells and their sensory transduction mechanisms.

L6 ANSWER 12 OF 14 MEDLINE DUPLICATE 5

ACCESSION NUMBER: 93176795 MEDLINE

DOCUMENT NUMBER: 93176795

TITLE: Molecular ***cloning*** of human von Ebner's gland protein, a member of the lipocalin superfamily highly expressed in lingual salivary glands.

AUTHOR: Blaker M; Kock K; Ahlers C; Buck F; Schmale H

CORPORATE SOURCE: Institut fur Zellbiochemie und klinische Neurobiologie, Universitat Hamburg, Germany..

SOURCE: BIOCHIMICA ET BIOPHYSICA ACTA, (1993 Feb 20) 1172 (1-2) 131-7.

Journal code: A0W. ISSN: 0006-3002.

PUB. COUNTRY: Netherlands
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Cancer Journals; Priority Journals

OTHER SOURCE: GENBANK-X62418; GENBANK-L02964; GENBANK-X61667;
GENBANK-L17031; GENBANK-L17032; GENBANK-L17033;
GENBANK-L04613; GENBANK-L04614; GENBANK-L04615;
GENBANK-L04616

ENTRY MONTH: 199306

AB Von Ebner's glands (VEG) are small lingual salivary glands. Their ducts open into trenches of circumvallate and foliate papillae, thus influencing the milieu where the interaction between ***taste*** ***receptor*** cells and sapid molecules takes place. The major secretions of human VEG is a protein with a molecular mass of 18 kDa. The human VEG protein crossreacts with antibodies raised against the rat VEG protein, indicating sequence similarity between the rat and human VEG proteins. This was subsequently confirmed by N-terminal protein sequencing. A ***cDNA*** ***clone***, isolated from a human VEG library, contained an insert of 735 bp including an open reading frame that encodes the human VEG protein of 176 amino acids. Comparison of the human and rat VEG proteins revealed an overall identity of 60%. Immunocytochemistry, in situ hybridization and

in vitro translation studies demonstrated the human VEG protein to be highly and exclusively expressed in VEG. The VEG proteins are members of the lipocalin protein superfamily and, together with the rat odorant binding protein II, they constitute a new subfamily. Sequence similarity to proteins such as the retinol binding protein and the odorant binding protein which are lipophilic ligand carriers, suggests a possible function for the human VEG protein in taste perception.

L6 ANSWER 13 OF 14 BIOSIS COPYRIGHT 2000 BIOSIS

ACCESSION NUMBER: 1992:86167 BIOSIS

DOCUMENT NUMBER: BR42:38442

TITLE: AN EXPRESSION SYSTEM FOR THE ***CLONING*** OF
TASTE ***RECEPTOR*** PROTEINS.

AUTHOR(S): SMUTZER G; HONDA E; RESTREPO D; KALINOSKI L; TEETER J
CORPORATE SOURCE: MONELL CHEM. SENSES CENT., PHILADELPHIA, PA.

SOURCE: THIRTEENTH ANNUAL MEETING OF THE ASSOCIATION FOR
CHEMORECEPTION SCIENCES, SARASOTA, FLORIDA, USA, APRIL
1991. CHEM SENSES, (1991) 16 (5), 582.

CODEN: CHSED8. ISSN: 0379-864X.

DOCUMENT TYPE: Conference

FILE SEGMENT: BR; OLD

LANGUAGE: English

L6 ANSWER 14 OF 14 MEDLINE

DUPLICATE 6

ACCESSION NUMBER: 86296777 MEDLINE

DOCUMENT NUMBER: 86296777

TITLE: Contribution of electrostatic and hydrophobic interactions
of bitter substances with ***taste*** ***receptor***
membranes to generation of receptor potentials.

AUTHOR: Kumazawa T; Kashiwayanagi M; Kurihara K

SOURCE: BIOCHIMICA ET BIOPHYSICA ACTA, (1986 Aug 29) 888 (1) 62-9.
Journal code: A0W. ISSN: 0006-3002.

PUB. COUNTRY: Netherlands

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals; Cancer Journals

ENTRY MONTH: 198612

AB The effects of changed ionic environments on the frog taste nerve responses to the bitter substances were examined. The responses to quinine and strychnine carrying a positive charge were suppressed by an increase in ionic strength of stimulating solutions. It was concluded that electrostatic interaction of these positive bitter substances with the receptor membranes greatly contributes to the adsorption of the substances on the membranes and that this interaction was suppressed by an increase in ionic strength. The responses to neutral bitter substances (caffeine and theophylline) were unchanged by an increase in salt concentration. The zeta potential of the mouse neuroblastoma (N-18 ***clone***), which was depolarized by various bitter substances similarly to a taste cell, was measured in the presence of the bitter substances. The zeta potential was a little changed by quinine and practically unchanged by strychnine, caffeine and theophylline. The membrane fluidity of the N-18 cell monitored with 2-(9-anthroyloxy)stearic acid was changed in response to the bitter substances, while the fluidity monitored with 12-(9-anthroyloxy)stearic acid or 1,6-diphenyl-1,3,5-hexatriene was unchanged. This suggested that the bitter substances are adsorbed on the

hydrophobic region near the surface and induce a conformational change at the region. The depolarization by the bitter substances seems to stem from changes in the "boundary potential" at the region near the surface within the membrane interior.

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Entry 1 of 13

File: USPT

Dec 28, 1999

US-PAT-NO: 6008000

DOCUMENT-IDENTIFIER: US 6008000 A

TITLE: Gustducin materials and methods

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Margolskee; Robert F.	Upper Montclair	NJ	N/A	N/A

US-CL-CURRENT: 435/7.1; 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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2. Document ID: US 5965698 A

Entry 2 of 13

File: USPT

Oct 12, 1999

US-PAT-NO: 5965698

DOCUMENT-IDENTIFIER: US 5965698 A

TITLE: Polypeptides that include conformation-constraining groups which flank a protein--protein interaction site

DATE-ISSUED: October 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Evans; Herbert J.	Richmond	VA	N/A	N/A
Kini; R. Manjunatha	Singapore	N/A	N/A	SGX

US-CL-CURRENT: 530/326; 530/300, 530/324, 530/333, 530/380, 548/533

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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3. Document ID: US 5952465 A

Entry 3 of 13

File: USPT

Sep 14, 1999

US-PAT-NO: 5952465
DOCUMENT-IDENTIFIER: US 5952465 A

TITLE: Polypeptides that include conformation-constraining groups which flank a protein-protein interaction site
DATE-ISSUED: September 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Evans; Herbert J.	Richmond	VA	N/A	N/A
Kini; R. Manjunatha	Singapore	N/A	N/A	SGX

US-CL-CURRENT: 530/333; 424/185.1, 424/278.1, 530/326, 530/327, 530/328,
548/533

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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4. Document ID: US 5948887 A

Entry 4 of 13

File: USPT

Sep 7, 1999

US-PAT-NO: 5948887
DOCUMENT-IDENTIFIER: US 5948887 A

TITLE: Polypeptides that include conformation-constraining groups which flank a protein--protein interaction site
DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Evans; Herbert J.	Richmond	VA	N/A	N/A
Kini; R. Manjunatha	Singapore	N/A	N/A	SGX

US-CL-CURRENT: 530/333; 548/533

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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5. Document ID: US 5928896 A

Entry 5 of 13

File: USPT

Jul 27, 1999

US-PAT-NO: 5928896
DOCUMENT-IDENTIFIER: US 5928896 A

TITLE: Polypeptides that include conformation-constraining groups which flank a protein--protein interaction site
DATE-ISSUED: July 27, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Evans; Herbert J.	Richmond	VA	N/A	N/A
Kini; R. Manjunatha	Singapore	N/A	N/A	SGX

US-CL-CURRENT: 435/69.1; 435/91.2, 530/300, 530/324

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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6. Document ID: US 5817759 A

Entry 6 of 13

File: USPT

Oct 6, 1998

US-PAT-NO: 5817759
DOCUMENT-IDENTIFIER: US 5817759 A

TITLE: Gustducin polypeptides and fragments
DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Margolskee; Robert F.	Upper Montclair	NJ	N/A	N/A

US-CL-CURRENT: 530/350; 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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7. Document ID: US 5739409 A

Entry 7 of 13

File: USPT

Apr 14, 1998

US-PAT-NO: 5739409
DOCUMENT-IDENTIFIER: US 5739409 A

TITLE: Endogenously sweetened transgenic plant products
DATE-ISSUED: April 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Robert	El Cerrito	CA	N/A	N/A
Kim; Sung-Hou	Moraga	CA	N/A	N/A
Cho; Joong Myung	Moraga	CA	N/A	N/A
Penarrubia; Lola	Berkeley	CA	N/A	N/A
Giovannoni; James	San Francisco	CA	N/A	N/A
Kim; Rosalind	Moraga	CA	N/A	N/A

US-CL-CURRENT: 800/298; 435/320.1, 435/419, 47/58.1, 800/305, 800/312,
800/320.2, 800/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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8. Document ID: US 5693756 A

Entry 8 of 13

File: USPT

Dec 2, 1997

US-PAT-NO: 5693756
DOCUMENT-IDENTIFIER: US 5693756 A

TITLE: Amiloride-sensitive sodium channel and method of identifying substances
which stimulate or block salty taste perception
DATE-ISSUED: December 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Xiao-Jiang	Baltimore	MD	N/A	N/A
Blackshaw; Seth	Baltimore	MD	N/A	N/A
Snyder; Solomon H.	Baltimore	MD	N/A	N/A

US-CL-CURRENT: 530/350; 436/501, 530/324, 530/327

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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9. Document ID: US 5688662 A

Entry 9 of 13

File: USPT

Nov 18, 1997

US-PAT-NO: 5688662

DOCUMENT-IDENTIFIER: US 5688662 A

TITLE: Gustducin polynucleotides, vectors, host cells and recombinant methods
DATE-ISSUED: November 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Margolskee; Robert F.	Upper Montclair	NJ	N/A	N/A

US-CL-CURRENT: 435/69.1; 435/320.1, 530/350, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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10. Document ID: US 5684126 A

Entry 10 of 13

File: USPT

Nov 4, 1997

US-PAT-NO: 5684126

DOCUMENT-IDENTIFIER: US 5684126 A

TITLE: Ebnerin: a secreted von Ebner's gland protein associated with taste buds
DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Xiao-Jiang	Baltimore	MD	N/A	N/A
Snyder; Solomon H.	Baltimore	MD	N/A	N/A

US-CL-CURRENT: 530/300; 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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11. Document ID: US 5464770 A

Entry 11 of 13

File: USPT

Nov 7, 1995

US-PAT-NO: 5464770

DOCUMENT-IDENTIFIER: US 5464770 A

TITLE: DNA encoding (ASP 113) and (LYS 46, ASP 113) thaumatin I
DATE-ISSUED: November 7, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weickmann; Joachim L.	Los Angeles	CA	N/A	N/A
Ghosh-Dastidar; Pradip	Los Angeles	CA	N/A	N/A

US-CL-CURRENT: 435/254.21; 536/23.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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12. Document ID: US 5234834 A

Entry 12 of 13

File: USPT

Aug 10, 1993

US-PAT-NO: 5234834

DOCUMENT-IDENTIFIER: US 5234834 A

TITLE: Constructs for expression of monellin in plant cells

DATE-ISSUED: August 10, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Robert	Elcerrito	CA	N/A	N/A
Kim; Sung-Hou	Moraga	CA	N/A	N/A
Cho; Joong M.	Moraga	CA	N/A	N/A
Penarrubia; Lola	Berkeley	CA	N/A	N/A
Giovannoni; James	San Francisco	CA	N/A	N/A
Kim; Rosalind	Moraga	CA	N/A	N/A

US-CL-CURRENT: 435/320.1; 435/69.1, 536/23.6, 536/24.1, 800/305, 800/317.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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13. Document ID: US 5221624 A

Entry 13 of 13

File: USPT

Jun 22, 1993

US-PAT-NO: 5221624

DOCUMENT-IDENTIFIER: US 5221624 A

TITLE: DNA encoding (Lys.sup.46, Asp.sup.97, Asp.sup.113) and (Lys.sup.46, Asp.sup. . .sup.137) thaumatin I polypeptides

DATE-ISSUED: June 22, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blair; Lindley C.	Los Angeles	CA	N/A	N/A
Koduri; Raju K.	LaJolla	CA	N/A	N/A
Lee; Jar-How	Palos Verdes Estates	CA	N/A	N/A
Weickmann; Joachim L.	Los Angeles	CA	N/A	N/A

US-CL-CURRENT: 435/252.33; 435/243, 435/254.2, 435/254.21, 435/320.1, 435/69.1, 536/23.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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ALL	l3 and (clone or cloning or cdna)	13	<u>L4</u>
ALL	l1 or l2	134	<u>L3</u>
ALL	gustatory receptor	8	<u>L2</u>
ALL	taste receptor	129	<u>L1</u>